Answer Key

Unit 1: Basics of Electricity and Electronics

A. Multiple choice questions

17. (a)

- 2. (d) 1. (b)
- 3. (c)
- 4. (d)
- 5. (a)

- 6. (a) 7. (c)
- 8. (b)
- 9. (c)
- 10. (a) 15. (a)

- 11. (b) 12. (b)
- 13. (a) 18. (a)
- 14. (c) 19. (c)
- 20. (b)

B. Fill in the blanks

1. series

16. (b)

2. parallel

3. work

4. switch

5. positive

- 6. power
- 7. Georg Simon Ohm
- 8. 1000, 3600
- 9. opening and Closing
- 10. negative
- 11. voltage, resistance and resistance, voltage, current.

C. State whether the following statements are True or False

- 1. F
- 2. F
- 3. T
- 4. F
- 5. T

- 7. F 6. F
- 8. T
- 9. T
- 10. T

Unit 2: Electrical and Electronic Components

A. Multiple choice questions

- 1. (d)
- 2. (c)

27. (b)

- 3. (a)
- 4. (a)
- 5. (c)

- 6. (a) 7. (b)
- 8. (c)
- 9. (b)
- 10. (c) 15. (a)

- 11. (a) 12. (b) 16. (b) 17. (d)
- 13. (b) 18. (b)

28. (c)

14. (a) 19. (a)

- 21. (b) 22. (d)
- 23. (c)
- 24. (d) 29. (b)
- 20. (a) 25. (d) 30. (d)

- 26. (c)
- 31. (d) B. Fill in the blanks
 - 1. AC

2. impure

3. pure

4. electric

5. magnetic

- 6. two 8. three
- 7. semiconductor
- 10. transistor

C. State whether the following statements are True or False

- 1. F 6. F
- 2. T 7. T
- 3. T
- 4. T 9. T
- 5. F 10. T

- 11. T
- 12. F
- 8. T 13. T
- 14. F
- 15. F

- 16. T 17. F
- 18. T
- 19. F
- 20.F

E. Identify the symbols in the table given below

1. Resistor

2. Variable resistor

- 3. Thermistor
- 4. Varistor
- 5. Photo resistor
- 6. Light Emitting Diode
- 7. PN-junction diode
- 8. Bi-polar junction transistor

Notes

- F. Calculate the value for the following
 - 1. 4 ampere

2. 0.33 farad

3. 5 ohm

4. 0.00055 coulomb

5. 176 watt

6. 4840 watt

7. 10 ampere

- 8. 220V
- 9. 880 coulomb

- 10. 20 V
- G. Match the columns
 - 1. (f)

2. (d)

3. (b)

4. (a)

5. (c)

6. (e)

Unit 3: Components Value Indentification

- A. Multiple choice questions
 - 1. (d)
- 2. (b)
- 4. (c)
- 5. (c)

- 6. (b)
- 7.(b)
- 8. (a)
- 9. (a)
- 10.(b)

Unit 4: Electrical Earthing System

- A. Multiple choice questions
 - 1. (a)
- 2. (c)
- 3. (d) 8. (b)
- 4. (d)
- 5. (c)

- 6. (a) 7. (a)
- 9. (d)
- 10. (c)

- 11. (b) 12. (b)
- B. Fill in the blanks
 - 1. earth resistance
- 2. lightning arrestor

3. 5 metre

4. 1 feet (30 cm)

- 5. 0.5m
- C. State whether the following statements are True or False
 - 1. T
- 2. F
- 3. F
- 4. F
- 5. F

- 6. F
- 7. F
- 8. F
- 9. T
- 10. T

Unit 5: Cabling

- A. Multiple choice questions
 - 1. (c) 6. (a)
- 2. (c) 7. (c)
- 3. (a)

8. (b)

- 4. (a)
- 5. (b) 10.(b)

- B. Fill in the blanks
 - 1. earth

2. phase or line or live

9. (c)

3. neutral

4. single core fibre

- 6. 650 to 1100 volts
- 5. radio frequency 7. cross linked polyethylene
- 8.50-100

9. light

- 10. thermoset
- C. State whether the following statements are True or False
 - 1.T
- 2. T
- 3. T
- 4. T
- 5. T

- 6. F
- 7. F
- 8. T
- 9. F
- 10. T



WIREMAN — CONTROL PANEL - CLASS XI

Answer Key.indd 206 5/28/2020 12:59:48 PM

Unit 6: Electrical Safety

A. Multiple choice questions

7. (c)

- 1. (a) 2. (c)
- 3. (d) 8. (b)
- 4. (c) 9. (b)
- 5. (c) 10.(b)

Notes

B. Fill in the blanks

1. resistance

2. Miniature Circuit Breaker

3. close

6. (d)

- 4. conductor
- 5. Electrostatic Discharge
- 6. hazards

7. dry

- 8. stickers
- 9. respiratory paralysis
- 10. appropriate gauge

C. State whether the following statements are True or False

- 1. T
- 2. T
- 3. F
- 4. T
- 5. T

- 6. T 7. T
- 8. T
- 9. T
- 10. F

Unit 7: Tools and Equipment

A. Multiple choice questions

- 1. (d) 2. (a)
- 3. (b)
- 4. (c)
- 5. (a)

- 6. (d)
- 7. (b)
- 8. (d)
- 9. (a)
- 10. (c)

B. Fill in the blanks

- 1. cutting and gripping
- 2. 3, 48
- 3. soldering
- 4. electronic and manual

5. metal glue

6. rollable and rigid

7. neon

8. drill bits

9. current

C. State whether the following statements are True or False

- 1. F
- 2. T
- 3. T
- 4. F
- 5. F

- 6. T
- 7. T

Unit 8: Electromechanical Assembly

A. Multiple choice questions

- 1. (b) 6. (a)
- 2. (a)7. (a)
- 3. (c) 8. (b)
- 4. (b) 9. (a)
- 5. (c) 10.(d)

B. Fill in the blanks

1. connections

- 2. electromechanical
- 3. shielded twisted pair
- 4. bending

5. electrical

6. electrostatic discharge

7. amperage

8. Logic

9. faulty wires

10. label

C. State whether the following statements are True or False

- 1. F
- 2. T
- 3. T
- 4. F
- 5. T

- 6. T
- 7. T
- 8. T
- 9. T
- 10. T

Notes

Unit 9: Wire Preparation Methods

A. Multiple choice questions

- 1. (a) 2. (b) 3.
 - 6. (d) 7. (d)
- 8. (a)
- 4. (b) 9. (a)
- 5. (b) 10. (d)

- B. Fill in the blanks
 - 1. stripper

- 2. lugs
- 3. hydraulic crimping tool
- 4. aluminium and copper

5. strip

6. outer sheath

7. notch

8. crimping

9. grouping

- 10. solderless
- C. State whether the following statements are True or False
 - 1. T
- 2. F
- 3. T
- 4. T
- 5. T

- 6. F 7. T
- 8. T
- 9. T
- 10. F

Unit 10: Hazards with Panel Assembly and Wiring

A. Multiple choice questions

- 1. (d)
- 2. (b)
- 3. (a)
- 4. (c)
- 5. (c) 10.(d)

- 6. (d) 11. (c)
- 7. (d) 12. (d)
- 8. (d) 13. (a)
- 9. (c) 14. (b)
- 15. (a)

B. Fill in the blanks

- 1. rubber
- 3. heart
- 5. Carbolic acid
- 7. lungs
- 9. electric shocks
- 11. off
- 13. good
- 15. wet

- 2. strained
- 4. Sodium bicarbonate
- 6. 10-15 times per minute
- 8. grounding
- 10. earthing
- 12. Fault
- 14. electrical, electronic
- C. State whether the following statements are True or False
 - 1. T 6. T
- 2. T 7. T
- 3. F 8. T
- 4. T
 - 9. F
- 5. F 10. F